



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant: Martin
Title: Optical sensor and Methods for Measuring Molecular Binding Interactions

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Information Disclosure Statement

Commissioner for Patents
PO Box 1450
Alexandria VA, 22313

Sir:

Attached is a completed Form PTO/SB/08 (A and B) and copies of pertinent references cited thereon.

The Ghadiri reference discloses a porous silicon based optical interferometric sensor. Neither it nor any other prior art Applicants are aware of discloses unique features of the present invention such as:

1. an interference monitor comprising a deep well linear photodiode array of pixels each pixel having a photoelectron full well capacity of about 156 million photoelectrons or more and having a frame rate of about one hundred or more frames of interference fringe data per second and
2. a computer program comprising: a special correlation method for calculation of optical path differences from measured interference fringe patterns wherein each measured fringe pattern is correlated to a test fringe pattern.

Very respectfully,

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